21 Griffin Rd. North
Windsor, CT 06095

T 860.298.9692
TRCcompanies.com

June 29, 2020

Mr. Adam Fox, P.E.
Principal Engineer
Environmental Compliance Section
Bureau of Engineering and Construction
State of Connecticut Department of Transportation
2800 Berlin Turnpike, P.O. Box 317546
Newington, CT 06131-7546

Attention: Amie Maines, P.E. / Mandy Socolosky

Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance
Agreement No.: 8.07-01 (18)
HazMat Inspection - Bridge No. 01686B, I-84 TR825 over Route 44 EB & Columbus Boulevard, Hartford, CT
ConnDOT Assignment No. 514-6288
ConnDOT Project No. 63-654
TRC Project No. 289951.6288.0710

Dear Mr. Fox:

TRC performed a limited survey for hazardous building materials associated with the rehabilitation of Bridge No. 01686B, I-84 TR825 over Route 44 EB & Columbus Boulevard in Hartford, Connecticut. Results of the survey identified lead paint to be present on the structural steel/metal bridge components and railing supports at Bridge No. 01686B. Results obtained from TCLP waste stream sampling and analysis for leachable lead from the paint on the structural steel/metal bridge components and railing supports characterized the paint waste streams at Bridge No. 01686B as CTDEEP/RCRA hazardous waste. No detectable amounts of lead in paint were identified on the small yellow painted section of Pier No. 6, therefore any project paint waste stream would be non-hazardous, non-RCRA lead waste. Black tar between the expansion joints beneath the bridge were sampled and found to contain asbestos. Canvas between the bearing plate & concrete pier was sampled and found to contain no detectable levels of asbestos. No bird/pigeon guano accumulations or bloodborne pathogen (BBP) concerns were observed in accessible areas of Bridge No. 01686B. Potential Universal Waste & Connecticut Regulated Waste in the form of light pole/box luminaires and security cameras were identified, however they are not expected to be impacted. Associated laboratory data, TRC Mobile Data report, project description and site map are attached.

If you have any questions, please call TRC at (860) 298-9692.

Very Truly Yours,

TRC

Stephen R. Arienti, CHMM
Senior Project Scientist – Program Manager

Erik R. Plimpton, P.E., CHMM, CMC
Vice President – Engineer in Charge

Lead Based Paint Measurement Summary Table

Device(s): Niton XLP301-A (Serial #24792) X Ray Fluorescence (XRF) Spectrum Analyzer
Site: ConnDOT - Bridge No. 01686B, Hartford, CT
Project # : 289951.6288.0710
Date(s): 6/10/2020
Inspectors: Elise Barrieau

Number	Interior/ Exterior	Location	Bridge No.	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm^2)	Precision (mg/cm^2)	Depth Index	Duration (sec)	Date/Time
1			**Self Calibration**										48.3	6/10/2020 8:04
2			**0.0 Calibration**							0.0	0.0	1.0	9.2	6/10/2020 8:05
3			**0.7 Calibration**							0.7	0.1	1.1	7.1	6/10/2020 8:05
4			**0.3 Calibration**							0.3	0.0	1.1	17.3	6/10/2020 8:06
5	Exterior	Hartford, CT	Bridge No. 01686B		i beam panel		Metal	Green	Defective	**30.4**	**1.1**	2.9	23.6	6/10/2020 8:22
6	Exterior	Hartford, CT	Bridge No. 01686B		i beam panel		Metal	Green	Defective	**22.7**	**1.2**	4.9	17.9	6/10/2020 8:23
7	Exterior	Hartford, CT	Bridge No. 01686B		vertical brace		Metal	Green	Defective	**22.4**	**2.2**	3.9	5.7	6/10/2020 8:25
8	Exterior	Hartford, CT	Bridge No. 01686B		i beam		Metal	Green	Defective	**0.2**	**0.0**	1.6	13.8	6/10/2020 8:27
9	Exterior	Hartford, CT	Bridge No. 01686B		i beam under		Metal	Green	Defective	**1.1**	**0.3**	3.3	4.1	6/10/2020 8:30
10	Exterior	Hartford, CT	Bridge No. 01686B		i beam under		Metal	Green	Defective	**2.3**	**1.3**	3.4	3.6	6/10/2020 8:30
11	Exterior	Hartford, CT	Bridge No. 01686B	Pier 2	drain pipe		Metal	Green	Defective	**4.9**	**0.4**	2.7	11.3	6/10/2020 9:06
12	Exterior	Hartford, CT	Bridge No. 01686B	Pier 2	drain pipe		Metal	Green	Defective	**5.1**	**1.0**	2.2	9.2	6/10/2020 9:07
13	Exterior	Hartford, CT	Bridge No. 01686B	Pier 2	roadway beam		Metal	Green	Defective	0.0	0.0	1.0	10.7	6/10/2020 9:18
14	Exterior	Hartford, CT	Bridge No. 01686B	Pier 2	roadway beam		Metal	Green	Defective	0.0	0.0	1.0	10.3	6/10/2020 9:19
15	Exterior	Hartford, CT	Bridge No. 01686B	Pier 2	roadway beam		Metal	Green	Defective	0.0	0.0	7.7	24.5	6/10/2020 9:20
16	Exterior	Hartford, CT	Bridge No. 01686B	Pier 2	roadway beam		Metal	Grey	Defective	0.0	0.5	10.0	15.8	6/10/2020 9:22
17	Exterior	Hartford, CT	Bridge No. 01686B	Pier 2	roadway beam		Metal	Grey	Defective	0.0	0.0	1.0	30.0	6/10/2020 9:23
18	Exterior	Hartford, CT	Bridge No. 01686B	Pier 6	pier		Concrete	Yellow	Intact	0.0	0.0	1.0	10.7	6/10/2020 9:52
19	Exterior	Hartford, CT	Bridge No. 01686B	Pier 6	pier		Concrete	Yellow	Intact	0.0	0.0	1.0	8.6	6/10/2020 9:52
20	Exterior	Hartford, CT	Bridge No. 01686B	Pier 6	railing support		Metal	Silver	Defective	**8.4**	**0.9**	2.0	15.3	6/10/2020 9:54
21	Exterior	Hartford, CT	Bridge No. 01686B	Pier 6	railing support		Metal	Silver	Defective	**8.6**	**1.0**	2.0	11.7	6/10/2020 9:55
22	Exterior	Hartford, CT	Bridge No. 01686B	Pier 6	beam		Metal	Green	Defective	**14.4**	**1.2**	10.0	12.8	6/10/2020 10:26
23	Exterior	Hartford, CT	Bridge No. 01686B	Pier 6	beam		Metal	Green	Defective	**17.0**	**1.3**	5.3	11.3	6/10/2020 10:28
24			**0.0 Calibration**							0.0	0.0	1.0	9.2	6/10/2020 10:41
25			**0.7 Calibration**							0.7	0.1	1.1	8.2	6/10/2020 10:41
26			**0.3 Calibration**							0.3	0.0	1.1	12.7	6/10/2020 10:42

Lead paint includes paint found to contain **any detectable** amount of lead

by Atomic Absorption Spectrophotometry (AAS) or X-Ray Fluorescence (XRF).

Side A = Street side; Sides B,C,D follow clockwise

80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

COMPLETE ENVIRONMENTAL TESTING, INC.

Client: Mr. Stephen Arienti
TRC Environmental Consultants
21 Griffin Rd., North
Windsor, CT 06095

Analytical Report

CET# 0060339

Report Date:June 15, 2020
Project: Rehabilitation of Bridge 01686B, I-84 TR825, Htfd
Project Number: 289951.6288.0710

Connecticut Laboratory Certificate: PH 0116
Massachusetts Laboratory Certificate: M-CT903
Rhode Island Laboratory Certificate: 199

NELAP ACCREDITED TNI LABORATORY

New York NELAP Accreditation: 11982
Pennsylvania Certificate: 68-02927

SAMPLE SUMMARY

The sample(s) were received at 22.0°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
1	0060339-01	Solid	6/10/2020 9:50	06/11/2020
2	0060339-02	Solid	6/10/2020 11:32	06/11/2020
3	0060339-03	Solid	6/10/2020 12:05	06/11/2020

Analyte: TCLP Lead [EPA 6010C] **Analyst: SS**

Prep: EPA 3005A-1311 **Matrix: Extract**

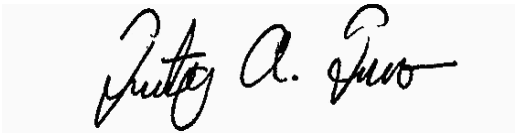
Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
0060339-01	1	210	0.013	mg/L	1	B0F1234	06/12/2020	06/12/2020 13:32	
0060339-02	2	210	0.013	mg/L	1	B0F1234	06/12/2020	06/12/2020 13:37	
0060339-03	3	110	0.013	mg/L	1	B0F1234	06/12/2020	06/12/2020 13:41	

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

David Ditta
Laboratory Director

This technical report was reviewed by Timothy Fusco



Project Manager

Report Comments:

Sample Result Flags:
E- The result is estimated, above the calibration range.
H- The surrogate recovery is above the control limits.
L- The surrogate recovery is below the control limits.
B- The compound was detected in the laboratory blank.
P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
+- The Surrogate was diluted out.
*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit
Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
All analyses were performed in house unless a Reference Laboratory is listed.
Samples will be disposed of 30 days after the report date.

CET # : 0060339

Project: Rehabilitation of Bridge 01686B, I-84 TR825, Htfd

Project Number: 289951.6288.0710

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 6010C in Water	
Lead	NY,CT

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2020
NY	New York Certification (NELAC)	11982	04/01/2021

TRC
21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

0060339

Edition: November 2013
Supersede Previous Edition

TCLP CHAIN OF CUSTODY

LAB ID #.

PROJECT NUMBER	PROJECT NAME
289951.6288.0710	Rehabilitation of Bridge 01686B I-84 TR825 and Columbus Blvd, Hartford

PARAMETERS

TURNAROUND TIME

	X	24hr		48hr		3day		5day
	X	24hr		48hr		3day		5day

INSPECTOR: (SIGNATURE)	(PRINTED)
Brendan McClure	Brendan McClure

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	RCRA Pb	RCRA Pb, AS, CR, CD	8 RCRA Metals	TCLP Pb	SPLP Pb	MATERIAL
1	6-10-20	0950		X	I-beam on Pier 1				X		Green Paint
2	6-10-20	1132		X	I-beam between Piers 5 and 6				X		Green Paint
3	6-10-20	1295		X	Bridge railing stanchion				X		Silver Paint

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
Brendan McClure	6-10-20	22° 6/11/20 0940		6/11/20	6/11/20
(Printed) Brendan McClure	Time: 1515	(Printed) GREG GILDAY	(Printed) GREG GILDAY	Time: 1545	(Printed)

Results to Stephen Ariente → sariente@trccompanies.com

TRC
21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

Edition: October 2009
Supersede Previous Edition

LAB ID #. 55290

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
289951.6288.0710	ConnDOT — Bridge No. 01686B, 528-598 Columbus Blvd, Hartford, CT		PLM: X 8hr 24hr 48hr 3day TEM: X 24hr 48hr 3day 5day
SIGNATURE Brendan McClure	INSPECTOR Brendan McClure, Elise Barrieau, Pat Schaffner		

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
1	6/10/2020	10:00		X	Under bearing plate on pier 1	X					C1 - Canvas-like caulk between bearing plate and concrete pier
2	6/10/2020	10:03		X	Under bearing plate on pier 1	X				X	C1 - Canvas-like caulk between bearing plate and concrete pier
3	6/10/2020	12:03		X	Next to pier 3 in expansion joint	X					T1 - Black tar in expansion joint
4	6/10/2020	12:03		X	Next to pier 3 in expansion joint	X				X	T1 - Black tar in expansion joint

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
Brendan McClure	6-10-20	6/11/20			
(Printed)	Time:	(Printed)	(Printed)	Time:	(Printed)
Brendan McClure	1500	0900 K. Williamson			

Remarks: RESULTS TO S.A.

Condition of Samples: _____
Acceptable: Yes ✓ No _____
Comments:

Industrial Hygiene Laboratory
21 Griffin Road North
Windsor, CT 06095
(860) 298-6308

BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #:	0055290
Project #:	289951.6288.0710
Date Received:	06/11/2020
Date Analyzed:	06/11/2020

Site: Bridge #01686B, 528-598 Columbus Blvd., Hartford, CT

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials		Asbestos %	Asbestos Type
1	Brown (canvas)	Yes	No	- -		- - -	ND	None
2	Brown (canvas)	Yes	No	- -		- - -	ND	None
3	Black (expansion joint)	Yes	No	- -	20%	cellulose	5%	Chrysotile
4	- -	- -	- -	- -		- -	NA/PS	- -

Reporting limit- asbestos present at 1%
ND - asbestos was not detected
Trace - asbestos was observed at level of less than 1%
NA/PS - Not Analyzed / Positive Stop
SNA- Sample Not Analyzed- See Chain of Custody for details

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, EPA recommends, and certain states (e.g. NY) require, that negative results be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation 1982 (EPA 600/M4-82-020) Bulk Analysis Code 18/A01 and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials July 1993, R.L. Perkins and B.W. Harvey, (EPA/600/R-93/116) Bulk Analysis Code 18/A03, which utilize polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2020. TRC is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the Industrial Hygiene Program (IHLAP) for PLM effective through October 1, 2020. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and QC data related to the samples is available upon written request from client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested.

Analyzed by: K. Williamson — Kathleen Williamson, Laboratory Manager

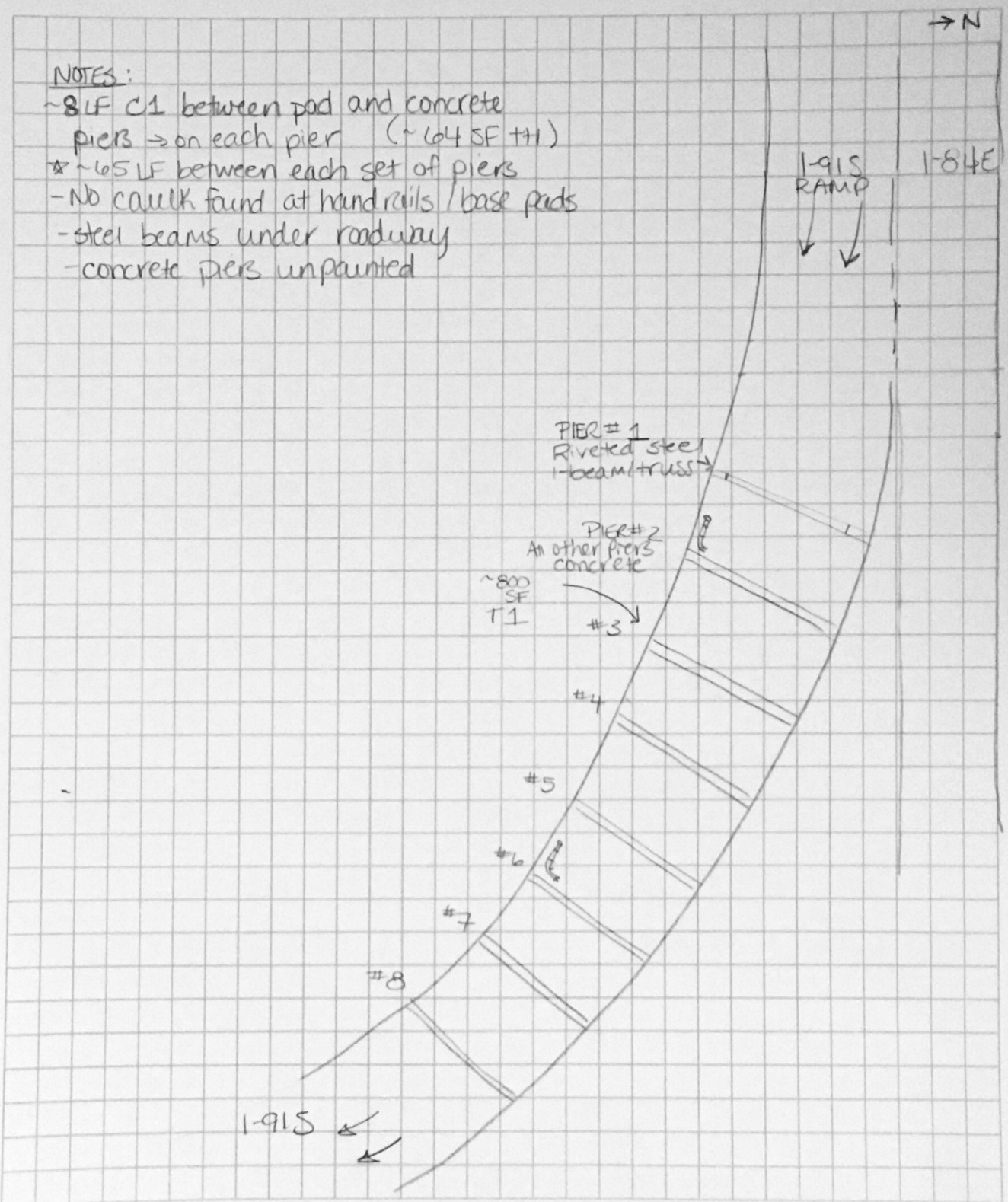
Reviewed by: Cathryn Lemire — Cathryn Lemire, Approved Signatory

Date Issued 06/15/2020

TRC

SHEET NO. ____ OF ____
PROJECT NO. 6288
DATE 6/10/2020
BY EB/PS/BM
SUBJECT BRIDGE 16816 B Hartford CHK'D CT DOT

NOTES:
- 8 LF C1 between pad and concrete piers → on each pier (~64 SF T1)
- ☆ ~65 LF between each set of piers
- No caulk found at hand rails / base pads
- steel beams under roadway
- concrete piers unpainted



A

ConnDOT, Bridge No. 01686B, Hartford, , Hartford, 06103, CT, US, Columbus Blvd, 528–598

Created	2020-06-10 08:59:31 EDT by Brendan McClure
Updated	2020-06-16 11:17:46 EDT by Stephen Arienti
Location	41.768558485536, -72.6692386241415
Status	Survey Complete

Job Information

Site Name	Bridge No. 01686B
Address	528–598 Columbus Blvd Hartford, CT 06103
TRC Project Number	289951.6288.0710
Project Manager	Stephen Arienti
Inspector(s)	Brendan McClure, Pat Schaffner, Elise Barrieau
Client	ConnDOT
Type of Asbestos Survey	Reno/Demo
Additional Analysis for NOB Materials (Calc)	TEM NY NOB 198.4
PLM Turnaround Time (TAT)	24-hour
TEM Turnaround Time (TAT)	24-hour
Date	2020-06-10
General Notes	Pipe between piers 1 and 2 have no suspect asbestos and is made of plastic and metal. Green paint on the I-beam on pier 1 reads positive lead paint and a TCLP was sampled. The pipe between piers 1 and 2 has hot green paint. The bridge railing is accessible only at the bridge's lowest point in the parking lot. The silver paint on the bridge railing vertical stanchions is positive lead paint. The horizontal part of the railing is galvanized. It is not assumed there is positive ACM caulking underneath the bridge railing. Tar was found between the expansion joints and sampled.
Overview Photo	

Pier 2 w/ bridge number

Pipe between pier 1 and 2. The pipe is ~50 LF.

Pier 1 with I-beam where the first TCLP was sampled. This I-beam is ~200 sq ft.

Surveys Performed	Asbestos, Hazardous Materials Inventory, TCLP Sampling, XRF

Asbestos Section

(2), C, 1, Canvas-like caulk between bearing plate and concrete pier, 2

Representative Photos

Under bearing plate on pier 1

Sample Location	Under bearing plate on pier 1
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2020-06-10
Time	10:00

Under bearing plate on pier 1

Sample Location	Under bearing plate on pier 1
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2020-06-10
Time	10:03

Material Information

Sampled or Assumed?	Sampled
Material Acronym	C, 1
Material Description	Canvas-like caulk between bearing plate and concrete pier
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Underneath bearing plates on piers
Total Approximate Quantity	~64 sq ft
Total Count	(2)
Total Count (number only)	2

(2), T1, Black tar in expansion joint, 2

Representative Photos

Next to pier 3 in expansion joint

Sample Location	Next to pier 3 in expansion joint
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116

Grab or Composite	Grab
Date	2020-06-10
Time	12:03

Next to pier 3 in expansion joint

Sample Location	Next to pier 3 in expansion joint
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2020-06-10
Time	12:03

Material Information

Sampled or Assumed?	Sampled
Material Acronym	T1
Material Description	Black tar in expansion joint
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Between all expansion joints
Total Approximate Quantity	~800 sq ft
Total Count	(2)
Total Count (number only)	2

XRF Section

Niton XRF Model No.	24792
XRF Survey Completed	Yes
XRF Data Downloaded	Yes
XRF Shots >1.0 on non-metallic building materials	No
Date Data Downloaded	2020-06-10

HAZMAT Inventory Section

On top of Bridge

Inventory Area Description	On top of Bridge

Universal Waste (UW), Roadway lights

Description	Universal Waste (UW), Roadway lights
Quantity	4

Photo

** PLEASE CONSIDER THESE GUIDELINES WHEN ADDING A HAZ ITEM ** 1) When selecting the "HAZMAT Item Description", be sure to check ALL pre-defined options before selecting "Other" and entering a custom option. 2) You only need to enter a "HAZMAT Item Common Name" if the "HAZMAT Item Description" isn't specific enough to sufficiently describe the hazardous material.

Underneath bridge

Inventory Area Description	Underneath bridge

Universal Waste (UW), Security System/Control Panels (Circuit boards/Hg Lamps/Batteries)

Description	Universal Waste (UW), Security System/Control Panels (Circuit boards/Hg Lamps/Batteries)
Common Name	Security Cameras
Quantity	14

Photo

** PLEASE CONSIDER THESE GUIDELINES WHEN ADDING A HAZ ITEM ** 1) When selecting the "HAZMAT Item Description", be sure to check ALL pre-defined options before selecting "Other" and entering a custom option. 2) You only need to enter a "HAZMAT Item Common Name" if the "HAZMAT Item Description" isn't specific enough to sufficiently describe the hazardous material.

Universal Waste (UW), Halogen Lights (Hg Lamps)

Description	Universal Waste (UW), Halogen Lights (Hg Lamps)
Quantity	10

Photo

** PLEASE CONSIDER THESE GUIDELINES WHEN ADDING A HAZ ITEM ** 1) When selecting the "HAZMAT Item Description", be sure to check ALL pre-defined options before selecting "Other" and entering a custom option. 2) You only need to enter a "HAZMAT Item Common Name" if the "HAZMAT Item Description" isn't specific enough to sufficiently describe the hazardous material.

Universal Waste (UW), Fluorescent bulbs - 4' (Hg Lamps)

Description	Universal Waste (UW), Fluorescent bulbs - 4' (Hg Lamps)
Quantity	2

Photo

** PLEASE CONSIDER THESE GUIDELINES WHEN ADDING A HAZ ITEM ** 1) When selecting the "HAZMAT Item Description", be sure to check ALL pre-defined options before selecting "Other" and entering a custom option. 2) You only need to enter a "HAZMAT Item Common Name" if the "HAZMAT Item Description" isn't specific enough to sufficiently describe the hazardous material.

Universal Waste (UW), Electronic Light Ballasts (Circuit Boards)

Description	Universal Waste (UW), Electronic Light Ballasts (Circuit Boards)
Quantity	1

Photo

** PLEASE CONSIDER THESE GUIDELINES WHEN ADDING A HAZ ITEM ** 1) When selecting the "HAZMAT Item Description", be sure to check ALL pre-defined options before selecting "Other" and entering a custom option. 2) You only need to enter a "HAZMAT Item Common Name" if the "HAZMAT Item Description" isn't specific enough to sufficiently describe the hazardous material.

TCLP/SPLP/Total Lead Section

I-beam on pier 1

TCLP/SPLP/Total Lead Sample Description	I-beam on pier 1

Metal

Material	Metal
Square Footage	200
Type of Analysis	TCLP Lead
Grab or Composite	Grab
Date	2020-06-10
Time	09:50

TCLP/SPLP/Total Lead Photos

I-beam between piers 5 and 6

TCLP/SPLP/Total Lead Sample Description	I-beam between piers 5 and 6

Metal

Material	Metal
Type of Analysis	TCLP Lead
Grab or Composite	Grab
Date	2020-06-10
Time	11:32

TCLP/SPLP/Total Lead Photos

Silver paint on bridge railing stanchion

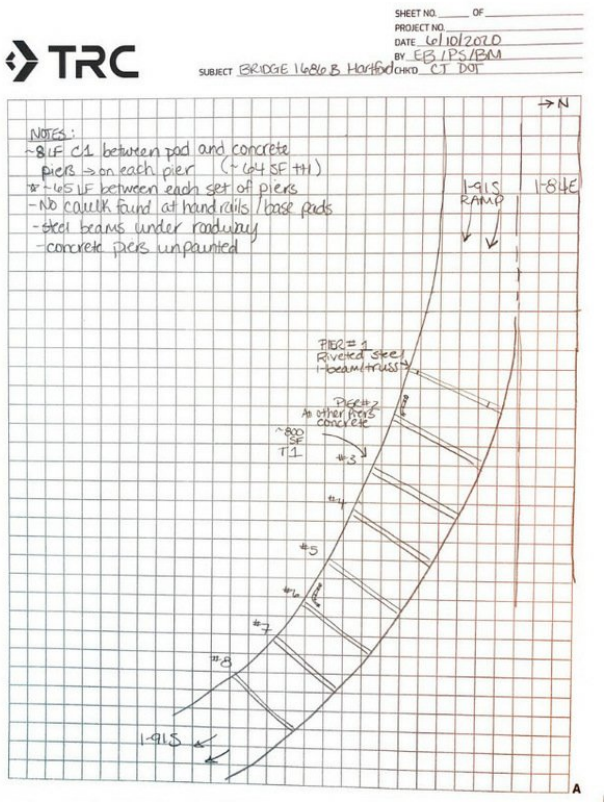
TCLP/SPLP/Total Lead Sample Description	Silver paint on bridge railing stanchion

Metal

Material	Metal
Type of Analysis	TCLP Lead
Grab or Composite	Grab
Date	2020-06-10
Time	12:05

General Information

Site Sketch Diagrams



Asbestos Samples Submitted to TRC Lab	Yes
Date Submitted to Lab	2020-06-10
TCLP/SPLP Samples Submitted to Lab	Yes
TCLP/SPLP Samples Submitted To:	CET
Date Submitted to Lab	2020-06-10
App Name	WinBSI HBM Survey 1.0

Generate Report Documentation

Select one or more documents below to be generated. Once completed in the cloud, they will be sent to the listed email address. Please report any difficulties or errors to Justin Coleman.

What documents should be generated?	Asbestos chain-of-custody
Where should the document(s) be sent?	sarienti@trcsolutions.com
Generate Documents	N/A

Project Description:

Bridge No. 01686B supports the I-84 eastbound transition ramp to I-91 southbound (TR 825) over U.S. Route 44 eastbound (Morgan Street) and Columbus Boulevard in the city of Hartford.

The existing bridge superstructure consists of an eight-span, steel, multi-girder superstructure with a reinforced concrete deck and a bituminous concrete wearing surface. The existing bridge substructure consists of eight piers. Pier number 1 consists of a concrete column with a riveted steel pier cap. Piers numbered 2 through 8 consist of cast-in-place concrete columns and caps. There are no abutments or wingwalls located at either end of the structure as Bridge No. 01686B is connected to Bridge No. 01686A at the west end and Bridge No. 01686E at the east end.

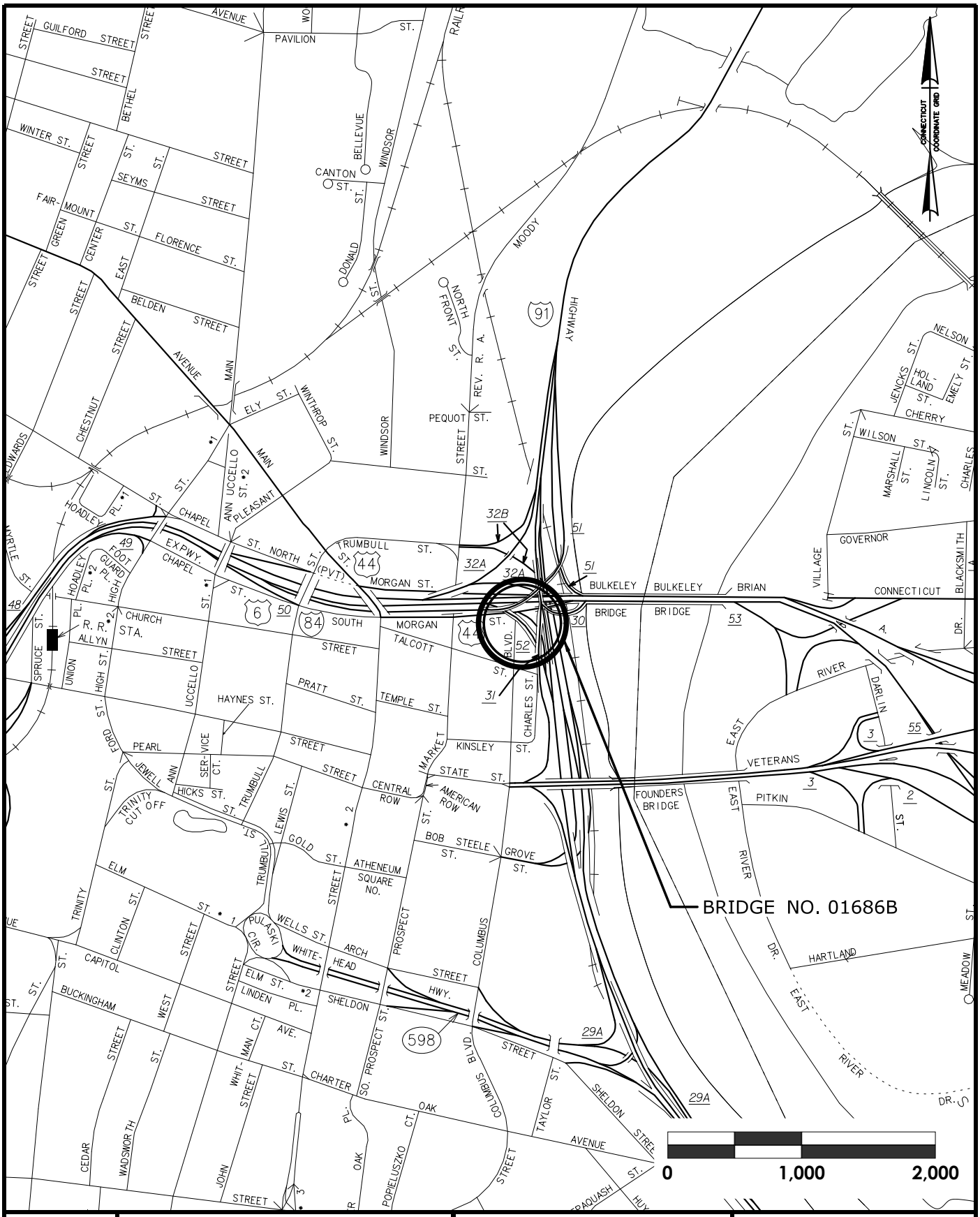
The overall condition of Bridge No. 01686B is fair, however the bridge has been determined to be in need of repair primarily due to the poor condition of the deck. The existing girders are in fair condition with some areas of rusting and section loss. The expansion joints are in fair condition with minor leakage occurring. The substructure is in fair condition with general cracking and deterioration of the concrete, as well as heavy rusting of the Pier 1 riveted steel cap.

The proposed rehabilitation consists of:

- Replacing the existing expansion joints;
- Removing the bituminous concrete overlay and membrane;
- Patching the deteriorated deck concrete in all spans;
- Installing new membrane waterproofing and a bituminous concrete wearing surface;
- Modifying the existing parapets to remove the safety walk and provide a 42-inch high safety shape. As per CTDOT's standard detailing, no effort will be made to increase the structural adequacy of the deck or barrier;
- Removing rust and deteriorated paint from the girder ends, the end diaphragms, the entire Pier 1 steel cap, and the fixed and end expansion bearings;
- Painting structural steel girder ends and other areas as required;
- Patching hollow and spalled concrete on the substructure and installing sacrificial anodes as required;
- Removing concrete haunches at the girder top flanges.

It is anticipated that temporary off-peak lane closures of local streets and full closure of the bridge ramp will be utilized to maintain and protect traffic during construction. Due to the narrow curb to curb width and tight radius, the bridge cannot be rehabilitated using stage construction. Traffic along Transition Ramp 825 will require a long-term closure and/or a series of weekend closures with a detour to facilitate deck and joint repairs. Off-peak lane/shoulder closures will be utilized along U.S. Route 44 (Morgan Street) and Columbus Boulevard to facilitate repairs beneath the bridge deck. The sidewalk along Morgan Street and Columbus Boulevard will be closed for various activities throughout construction, a pedestrian detour shall be implemented during those periods. Parking spaces in the Columbus Boulevard Parking Lot will be temporarily cordoned, and on street parking, bus routes, and access to the Morgan Street Garage may be impacted during construction.

As a result of the construction impacts associated with the proposed rehabilitation of Bridge No. 01686B, no environmental permits, utility impacts, or right-of-way impacts are anticipated. Construction is anticipated to begin in Fall of 2020 and be complete in Fall of 2021. The project is to be undertaken with 80% Federal and 20% State funds. The current obligated construction cost is approximately $4.4 Million.



BL Companies	I-84 TR825 OVER U.S. RT 44 EB & COLUMBUS BLVD. HARTFORD, CONNECTICUT	LOCATION MAP SCALE: 1" = 1000'	BR. NO.: 01686B DATE: AUGUST 2018 FIGURE NO.: 01